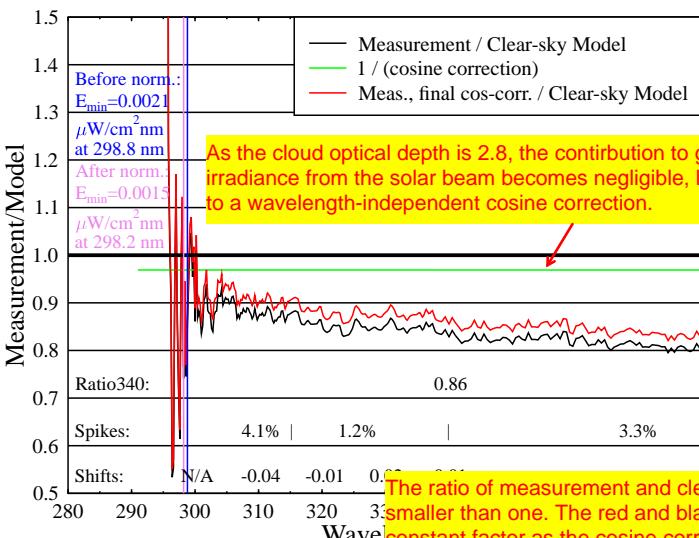


Example of a spectrum measured during cloudy conditions

CC940800.349



General:

- Filename composite/result scan CC940800.349 / CB940800.349
- Time / EXCEL-time of scan....: 12/15/1994 08:00:00 / 34683.33333
- Modeling time:..... 09/09/2003 20:09:42.10
- SZA / Azimuth start of scan...: 66.7399 / 58.42
- SZA from scan? / Sky condition yes /
- Pauses: 1_2 / 2_

The ratio of corrected measurement and cloud model is close to one. The good agreement at 450 nm can be expected as the cloud optical depth is determined based on the attenuation of the measured irradiance at this wavelength. The good agreement at other wavelengths indicates that the radiation levels remained constant during the period of the scan and that the model is able to describe the wavelength dependence of cloud attenuation correctly.

Model Parameters:

- Model version:..
- Radiative transf:..
- Streams / Delta I:..
- Transmittance wavelengths file /model/input/transmittanceslong.txt
- Scaled total ozone:..... 322.281 DU
- Ozone source:..... SUV
- Ozone cross-section:..... Bass_and_Paur
- Albedo:..... 0.98
- Air pressure at ground:..... 681.8 hPa
- Altitude / Height over ground: 2.835 km / 0 km
- Aerosol parameters:
- α/β /VIS/SSA/Haze/Seas/Vul/Asy: 1.3/0/100/0.99/6/1/1/0.7

Ozone Retrieval:

- Unscaled/Scaled/S-Factor/Dif:.. 322.3DU/322.3DU/1.00/0.0DU
- Irradiance at minimum wavel.:.. 0.965483 mW m⁻² nm⁻¹ at 302.782 nm
- Avg ratio 300-315 / 325-335 nm 0.911682 / 0.876746
- Ratio E(short) / E(long)..... 1.03985

Wavelength correction?:..... file

Wavelength shift analysis?:..... yes

- Spline w-value / s-value:..... 0.01 / 0.01
- Maximum wavelength shift:..... 0.3
- Filename center wavelengths:.. center_wl2b.txt
- Correlation interval UV / VIS: 5.0 / 15.0
- Minimum irradiance:..... 0.1 mW m⁻² nm⁻¹

Bandwidth normalization breaks:.. norm_SPO_Vol5.txt

Break point resampling method:.. 340 nm

Cosine Correction

- Method: advanced
- Standard angular response file response_c_standard.txt

Extraterrestrial spectrum:..... /model/input/ABS_ATL_SPECTR_KITTPEAK2s.txt

Profile:..... /model/input/profiles/South_Pole/AS329.dat

Slit function:..... /model/input/slitr1.00_st0.05.txt

Filename wavelength correction:.. avg-shift_wave_shift_SPO_Vol5_Ver0_slit0.90_st0.05_run1_JD327-13.csv_CC940000.327-CC950000.013.txt

Cosine correction coefficients:.. coeff_abc_SPO_Vol5_FD94_final.txt

Diffuse correction factor f_D:.. 0.969

Cloud-spectra directory..... C:/Version2/Spole/Vol9/Correction_parameters/Cloudspectra

Table G and B vs. SZA and COD... cloud_table_IC_SPO_Ver9_450nm.txt

Wavelength for COD retrieval:... 450 nm

Cloud correction tweak file:.... average_meas_model_SPO_Vol5_JD172-end_final.txt

Bandwidth normalized; even wavelength steps

